

THE MIL LIST

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This is an ongoing project. Any and all are invited to contribute.

If you have entries, please check the submission guide (appendix C). There have been numerous formatting headaches due to the various mail programs and the ASCII>WordPerfect>ASCII conversions involved in the editing.

I'm also a detail freak. If you have little bits of info on equipment that is already listed, by all means speak up!

I'd also appreciate feedback on the list. I don't know how it looks after it gets bitcrunched and packetted into a dozen different mail packages.

Thanks this time to Bill Detschel, Don Merz and Jim Specht for new entries.

Military Equipment List ----- 1-20-95

Designation	Description
AM-141B/MRC	Linear power amp, 2-18mHz, designed for use with BC-610(), 115VAC, 60Hz, 50A
AM-3924	Linear power amp, HF, 1kW, used with AN/FRC-93 and AN/GRC-122 sets
AM-6155/GRT-22	Linear power amp, 225-400mHz, 50w (conservative) 10w in, Eimac X165Z final, extensive metering, can be converted to 116-150mHz, rack mount 7" high, 80 lbs, ITT (model 3212)
AN/ARC-5	"Command Set" WWII airborne receiver and transmitter sets used in various combinations, also known as "liason sets" given their common usage, describes the following possible units (see individual entries): R-23/BC-453/CBY-46129 Receiver, 190-550kHz R-24/BC-946/CBY-46145 Receiver, 520-1500kHz R-25/BC-???:/CBY-46104 Receiver, 1.5-3.0mHz R-26/BC-454/CBY-46105 Receiver, 3.0-6.0mHz R-27/BC-455/CBY-46106 Receiver, 6.0-9.1mHz

T-19/BC-457/CBY-52209 Transmitter, 3.0-4.0MHz
T-22/BC-459/CBY-52211 Transmitter, 7.0-9.1MHz

MD-7 AM Speech Modulator

The AN/ARC-5 system uses R- and T- designations.
The BC- numbers are used in Signal Corps SCR-274N
sets. The CBY- numbers are used in the Navy
ATA/ARA/RAV/RBD sets.

Receivers all use the same 6-tube superhet design:
r.f. amplifier (12SK7), converter (12K8), two i.f.
stages (two 12SK7's, or 12SK7/12SF7), detector and
two audio stages (12SR7, 12A6)

Transmitters use four tubes: 1626 oscillator, two
1625 finals, and 1629 magic-eye tuning. All have
internal VFO and 28VDC dynamotor.

AN/ARC-27	Transceiver, 225-400MHz, 18 preset chan of 1750 possible, AM, 20w, Rockweel Collins and Magnavox, replaced by Collins ARC-159 and Magnavox ARC-164
AN/ARC-33	Transceiver, major component RT-173
AN/ARC-34	Transceiver, 225-400MHz, 3500 chan, AM, 20w, Rockwell Collins and Magnavox. replaced by Collins ARC-159 and Magnavox ARC-164
AN/ARC-44	Transceiver, 24-52MHz, FM, aircraft use, major component RT-294B, replaced by AN/ARC-54
AN/ARC-45	Tranceiver, 225-400MHz, 1750 chan, AM, 1w, 150, 28, and 300VDC, major component RT-295, replaces the AN/ARC-60
AN/ARC-51	Transceiver, 225-400MHz, 1750 chan, 100kHz spacing, AM, 20w, 28VDC, Navy version, Admiral Systems, ASC Systems and Rockwell Collins
AN/ARC-51A	Transceiver, similiar to AN/ARC-51
AN/ARC-51AX	Transceiver, similiar to AN/ARC-51, 28VDC (inverted to 115VAC 400Hz), major component: RT-702, Army version
AN/ARC-51BX	Transceiver, same as AN/ARC-51AX except 3500 chan,

50Hz spacing and major component RT-742

AN/ARC-51X	Transceiver, Air Force version of AN/ARC-51BX
AN/ARC-54	Transceiver, 30-69.95mHz, 800 chan, 50Hz spacing, FM, 10w, 28VDC, major component: RT-348, Rockwell Collins, replaced by AN/ARC-131
AN/ARC-55	Transceiver, UHF, AM, major component: RT-349, RT-349A, or RT-349B, replaced by AN/ARC-51BX and AN/ARC-51X
AN/ARC-60A	Transceiver, 228-258mHz, AM, 28VDC, major components: R-508 and CV-431, replaced by AN/ARC-45
AN/ARC-73	Transceiver, 116-150mHz, 680 chan, 80 preset, AM, 20w, 28VDC, major components: T-879, R-1123 and C-4074
AN/ARC-73A	Transceiver, 116-149.95mHz TX, 108-151.95mHz RX, 50kHz steps, AM, 20w, 28VDC 3.3A, used in OV-1A Bronco aircraft, ASC Systems
AN/ARC-84	Transceiver, 118-136mHz 360 chan TX, 108-136mHz 560 chan RX, AM, 25w, vacuum tube, 27lbs in three components, Allied Technology Inc.
AN/ARC-94	Transceiver, 2-29.999mHz, 1kHz spacing, AM/SSB, major component: RT-698/ARC-94 and 714E-2, 208VAC 400Hz
AN/ARC-101	Transceiver, 116-150mHz, AM, 680 chan TX, 108-150mHz, 880 chan RX, 50kHz spacing, Allied Technology
AN/ARC-102	Transceiver, 2-30mHz, 1kHz spacing, AM/SSB, 100w AM, 400w PEP SSB, major components: RT-698 and C-4390, replaces the AN/ARC-59
AN/ARC-109	Transceiver, 225-400mHz, 3500 chan, AM, 30w, solid-state, Rockwell Collins
AN/ARC-114	Transceiver, 30-76mHz, FM, 920 chan, guards 40.50mHz, 1 or 10w, 28VDC, 7lbs, components vary with aircraft, GTE Sylvania
AN/ARC-114A	Transceiver, similiar to AN/ARC-114 except manufactured by E-Systems

AN/ARC-115	Transceiver, 116-150mHz, AM, 1360 chan, guards 121.5mHz, 10w, 28VDC, 7lbs, GTE Sylvania
AN/ARC-115A	Transceiver, similiar to AN/ARC-115 except manufactured by E-Systems
AN/ARC-116	Transceiver, 225-400mHz, AM, 3500 chan, 10w, 28VDC, 8lbs, helicopter use, GTE Sylvania
AN/ARC-119	Transceiver, 2-29.999mHz, 1kHz spacing, AM/SSB, major components: RT-698/ARC-119 and 714E-2A, 27.5VDC
AN/ARC-120	Transceiver, 2-29.999mHz, 1kHz spacing, AM/SSB, major components: RT-698/ARC-120 and 713E-3, 115VAC 400Hz
AN/ARC-131	Transceiver, 30-76mHz, 920 chan, FM, 1 or 10w 28VDC, 30lbs, major components: RT-823 and C-7088, replaces AN/ARC-54
AN/ARC-134B	Transceiver, 116-150mHz, 860 chan, 50kHz spacing; 1360 chan in -A version), AM, 25-40w, 28VDC, 20lbs, major components: RT-857 and C-7197
AN/ARC-156	Transceiver, 225-400mHz, 7000 chan, 30w AM and 100w FM/FSK. Made for Navy S-3A and E-2C by Rockwell Collins
AN/ARC-159	Transceiver, 225-400mHz, 7000 chan, 25kHz steps, AM, 30w, 28VDC 12A, Rockwell Collins
AN/ARC-160	Transceiver, 150-173.995mHz, 5kHz steps, FM, simplex or half duplex, 5w, guards 156.8mHz, used by the US Coast Guard and Canadian Transport Ministry for airborne marine communications, 28VDC 2A, GTE Sylvania
AN/ARC-164(v)	Transceiver, 225-400mHz, 25kHz spacing, AM, 1-10w, 18, 24 or 28VDC, major component: RT-1167, Magnavox
AN/ARC-186	Transceiver, 30-87.975mHz FM and 108-151.975mHz AM, (108-155.975 in the VHF-186 version), 20 chan presets and manual tune in 25kHz steps, 10w AM/FM, Guards 41.5/121.5mHz, 28VDC 4A, 5"x5"x6.5", 6.5lbs, Rockwell Collins

AN/ARC-515R-1	Transceiver/navigation receiver, VHF, AM, major component: RT-514R-1, used in T-41B aircraft
AN/ARC-524A	Transceiver, 118-140mHz, AM, 360 chan, 15w, 28VDC, used in TH-55A aircraft
AN/ARR-15	Receiver, 1.5-18mHz, main component: R-105/ARR-15
AN/ARR-15A	Receiver, 1.5-18mHz, main component: R-105A/ARR-15
AN/ART-13	Transmitter, HF, AM/CW/MCW, major component: T-47/ART-13, post-WWII to Korean War
AN/ASC-15	Radio set, groups three AN/ARC-131 for helicopter use in forward areas
AN/FRC-93	Radio set, Special Forces/USACC/field artillery, HF, SSB, 1kW (PEP) with AM-3979 linear amplifier, other major component: RT-718 transceiver, Collins Radio
AN/FRR-59()	Receiver, 2-32mHz, four bands, mechanical digital dial, USB/LSB/ISB/AM/CW, many 7&9 pin tubes, triple-conversion: 1625-1725/220/80kHz, 25.25h X 22"w X 24"d, 300 lbs, National Radio, no info on variants A or B
AN/GRC-10	Radio set, National Guard/Army Reserve, VHF, FM, major components: T-235 and R-125
AN/GRC-19	Radio set, National Guard/Army Reserve, HF, AM/CW, medium power, major components: T-195 and R-392
AN/GRC-26D	Radio set, National Guard/Army Reserve, HF, RTTY, high-power shelter-mounted station for mobile, fixed or semifixed operation, major components: T-368 and R-390, replaced by AN/GRC-122
AN/GRC-38	Radio set, 0.54-54mHz RX, 2-18mHz TX, AM/CW, consists of one BC-610, two R-274 receivers and CY-1218 control box, two local and one remote operating positions, Hallicrafters, successor to SCR-299, 399 and 499, replaced by AN/GRC-41
AN/GRC-41	Radio set, HF, CW/AM in half- or full-duplex operation, for mobile, fixed, or semi-fixed use, major components: T-368C and R-390

AN/GRC-46	Radio set, National Guard/Army Reserve, HF, AM/RTTY, transmits 1.5-20mHz, receives 0.5-32 mHz, 100w, 28VDC, AN/VRC-29 is equivalent, replaced by AN/GRC-142, shelter mounted
AN/GRC-50	Radio set, UHF, FM, transportable, major components: T-893 and R-1331
AN/GRC-87	Manpack transceiver, HF, AM, low-power, similar to mobile AN/VRC-34 set, major component: RT-77/GRC-9
AN/GRC-103	Radio set, UHF, FM, compact, 24 telephone channels when used with multiplex equipment, major components T-983 and R-1329
AN/GRC-106	Radio set, HF, SSB, mobile use (but also fixed or semi-fixed), major component: RT-662, replaces AN/GRC-19, variant set AN/ARC-106A uses RT-834
AN/GRC-109	Radio Set, Special Forces, 3-22MHz, CW, consists of: T-784/GRC-109 transmitter, R-1004/GRC-109 receiver, PP-2685 AC power supply, PP-2684 AC/DC power supply. See RS-1 and individual entries
AN/GRC-122	Radio set, HF, AM/SSB/RTTY, vehicular, part of a family of sets including AN/GRC-142, AN/VSC-2, and AN/VSC-3, replaced AN/GRC-26D for Division HQ use, major components two RT-662's and AM-3924
AN/GRC-125	Radio set, 30-76mHz, FM, for vehicular, manpack, or fixed use, major component RT-505, 1-2w
AN/GRC-142	Radio set, similar to AN/GRC-122 except just one RT-662, replaces AN/GRC-46
AN/GRC-143	Radio set, 4.4-5.0GHz, FM, tropospheric/diffractive scatter mode of operation, major components: T-961 and R-1287
AN/GRC-144	Radio set, 4.4-5.0GHz, FM, general purpose, major components: T-1054 and R-1467
AN/GRC-160	Radio set, AN/PRC-77 variant, 30-76mHz, 920 chan, 50kHz spacing, FM, major component: RT-841
AN/GRC-163	Radio set, Point-to-point infantry communications, VHF, FM, major components modified RT-442 and RT-524

AN/GSQ-151	Seismic detection radio, major component: RC-3A
AN/MRC-102	Radio set, variant of AN/GRC-50, major components: two AN/GRC-50 sets
AN/MRC-103	Radio set, variant of AN/GRC-50, major components: three AN/GRC-50 sets
AN/MRR-8	Radio set, HF, RTTY, air/mobile transportable shelter, major components: R-390/URR receiver, RTTY equipment, diversity circuitry, security gear
AN/MRT-9	Radio set, HF, RTTY, air/mobile transportable shelter, major components: T-368 and R-390
AN/MS-57	Radio set, 7.25-8GHz via satellite, FM, 3-100w, 115/230VAC 50-60Hz, 22-30VDC, 1375lbs
AN/MS-58	Radio set, 240-315MHz via satellite, FM, 1-100w, 115/230VAC 50-60Hz, 22-30VDC, 9500lbs
AN/PRC-1	Radio Set, portable, 2-12MHz, two bands, Transmitter: xtal, AM/CW, 30 W, Receiver: AM/CW 18" X 13.25" X 7.25", 32lbs 115/150/200/220/250 VAC, 50/60Hz, manufactured circa 1940, concealed in a suitcase, used by intelligence and special forces personnel
AN/PRC-5	Radio Set, portable, 4-16MHz, four bands, Transmitter: xtal, AM/CW, 10-16W, Receiver: AM/CW, superhet, 11" X 10" X 4", 25lbs, 110/220VAC, 50/60Hz, manufactured late 1940s, concealed in a suitcase, with J-47 key, plug-in xmit coils, HS-30 headset and FT-243 crystals, used by intelligence and special forces personnel
AN/PRC-6	Transceiver, 47-55.4MHz, major component: RT-196, Korean war
AN/PRC-8	Transceiver, 20-28MHz, FM, 1w, manpack/vehicular/fixed station, 1.5, 6, 67.5 VDC (receive), 135VDC (transmit), BA-279 mil-type battery, 8 lbs, Korean war
AN/PRC-9	Transceiver, 27-39MHz, FM, similar to AN/PRC-8
AN/PRC-10	Transceiver, 38-55MHz, FM, similar to AN/PRC-8,

less than 1 watt

AN/PRC-25	Transceiver, 30-76mHz, 920 chan, 50kHz spacing, FM, short-range, 1-2w, major component: RT-505/PRC-25, 24VDC from BA-4386 mil-type battery, solid-state except for 2DF4, 18 lbs
AN/PRC-41	Transceiver, 225-400mHz, AM, 3w, manpack/vehicular/field use, major component: RT-695
AN/PRC-41A	Transceiver, variant of AN/PRC-41, uses the RT-695A and adds "X-Mode" (secure/scrambled voice)
AN/PRC-47	Transceiver, Special Forces, 2-12mHz, SSB/CW, 20 and 100w (PEP), major component: RT-67, digital tuning, 24VDC, 26.5VDC, or 115VAC 400Hz, portable/vehicular/fixed use
AN/PRC-64A	Transceiver, Special Forces, 2.2-6mHz, AM/CW, 4 chan, crystal control, 5w CW, 1.5w AM, 31.2VDC from BA-1509 mil-type battery, CR-89/U or CR-78/U crystals
AN/PRC-66B	Transceiver, 225-399.95mHz, 3500 channels, AM, 2w, rechargeable nicad or alkaline battery supply, packset, Rockwell Collins
AN/PRC-68	Transceiver, 30-80mHz on 1000 chan, 50kHz spacing, 1w, 16VDC from BA-1588/U mil-type battery, handheld
AN/PRC-68A	Transceiver, 30-80mHz, 10 randomly programable channels, 25kHz spacing, 2w, 16VDC from BA-715/U mil-type Nicad battery, handheld
AN/PRC-70	Transceiver, 2-76mHz, 25,000 chan, 100kHz spacing, FM/AM/CW/SSB, manpack, detent tuning, 30w (below 50 mHz), 20w (above 50 mHz), replaces AN/GRC-109, AN/PRC-74, and AN/PRC-77
AN/PRC-74	Transceiver, Special Forces, 2-12mHz, SSB/CW, 15w (PEP), 10.5-17VDC or 12-31VDC, or 110/220VAC, battery operated from 70 BA-30 or 10 BB-418/U mil-type batteries, or from PP-4514/PRC-74 supply, variants AN/PRC-74B and AN/PRC-74C operate 2-18mHz, replaced by AN/PRC-70
AN/PRC-77	Transceiver, Special Forces, 30-76mHz, 920 chan,

50kHz spacing, FM, manpack or vehicular, 1-2w,
 24VDC from BA-4386 mil-type battery, major
 component: RT-841/PRC-77, replaced by the
 AN/PRC-70, production:

contract	date	manufacturer	quantity	cost
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	1968	RCA/Electrospace Corp.	unknown	
	1973	E-Systems (S. Korea)	unknown	
	1981	Sentinel Electronics	12,194	\$976
	1983	Sentinel Electronics	3,000	
	1984	C&G Associates	2,116	\$870
	1985	Cincinnati Electronics	40,000	
	1986	Iran Communications	unknown	
	1989	Lucas-Hazelton	unknown	
	1990	Napco-Keystone	6,000	
	????	Taidran (Isreal)	unknown	\$1200

AN/PRC-90 Transceiver, aircraft rescue, UHF, 3 channels, AM,
 1/2w, 14VDC from 1568/U mil-type battery, comes
 with 243.0 and 282.8mHz crystals, 2 lbs (including
 battery), waterproof

AN/PRC-96 Lifeboat radio, 121.5 and 243.0mHz xtal control,
 voice and emergency beacon, solid state, 2.9V
 lithium battery (two req'd), 6"x4"x2", 3.5lbs,
 C-RAN Corp.

AN/PRC-117 Transceiver, 30-90mHz, 2400 chan, 25kHz spacing,
 eight preset chan, FM, 1-10w, frequency-hopping
 mode, 12VDC, 13lbs, manpack, major component:
 RT-1406/PRC-117, Harris Corp

AN/PRC-601 Transceiver, 47-57mHz, 25kHz spacing, xtal control,
 FM, handie-talkie, two mile range, GTE Sylvania

AN/PRC-602 Transceiver, 70-80mHz, features same as AN/PRC-601

AN/PRR-9 Receiver, 47-57mHz, crystal controlled, 2 chan,
 for helmet/pocket/harness use, 6VDC from BA-505/U
 mil-type battery, 11oz. w/batt, used with AN/PRT-4

AN/PRR-9(XE-9) Receiver, 47-57mHz, 150Hz tone squelch, crystal
 controlled, 1 chan, for helmet/pocket/harness use,
 3VDC from mil-type battery, 11oz. w/batt, used with
 AN/PRT-4A

AN/PRT-4 Transmitter, 47-57mHz, crystal controlled, 2 chan,

FM, 1/2w on one channel, 1/4w on other channel, 15VDC from BA-399/U mil-type battery, equipped with 51.0mHz crystal, used with AN/PRR-9

AN/PRT-4A	Transmitter, 47-57mHz, 150Hz tone squelch, crystal controlled, 2 chan, FM, 1/2w on one channel, 1/4w on other channel, 15VDC from BA-399/U mil-type battery, equipped with 51.0mHz crystal, used with AN/PRR-9 or AN/PRR-9A
AN/TRC-24	Radio set, transportable, National Guard/Army Reserve, 50-1875mHz, various modes, 10-120w, major components: T-302 and R-417
AN/TRC-29	Radio set, transportable, National Guard/Army Reserve, microwave, rear-area multichannel communications, major components: T-389/TRC-29, T-303/G, R-543/TRC-29, and R-418/G
AN/TRC-38	Radio set, transportable, similar to AN/TRC-29, but with dual transmitting/receiving components
AN/TRC-39	Radio set, transportable, similar to AN/TRC-29, but with triple transmitting/receiving components
AN/TRC-40	Radio set, transportable, variant of AN/TRC-39
AN/TRC-41	Radio set, transportable, variant of AN/TRC-39
AN/TRC-68A	Radio set, transportable, 225-400mHz, 1750 chan, 100kHz spacing, AM, 1.5w, 24VDC or 115/230VAC 50-60Hz, major component: OA-2649, for airborne assault support
AN/TRC-80	Radio set, transportable, 4.4-5gHz, 5 voice and one RTTY channel, FM, 120F9, 1kW, 120/280VAC, 3ph, 400Hz, troposcatter propogation, deployed with Pershing missiles
AN/TRC-87	Radio set, transportable/ground, UHF, major component R-1121
AN/TRC-90	Radio set, transportable, National Guard/Army Reserve, microwave terminal, FM, used with AN/PRC-47 sets
AN/TRC-97B	Radio set, transportable, National Guard/Army Reserve, 4.4-5gHz, FM, 10,000F9, 1kW, 120/208VAC

400Hz, for line-of-sight, troposcatter, or obstacle gain diffraction propagation

AN/TRC-108	Radio set, transportable, similar to AN/GRC-50
AN/TRC-109	Radio set, transportable, similar to AN/GRC-50
AN/TRC-110	Radio set, transportable, similar to AN/GRC-50
AN/TRC-117	Radio set, transportable, similar to AN/GRC-50
AN/TRC-129	Radio set, transportable, similar to AN/TRC-90
AN/TRC-132	Radio set, transportable, 4.4-5GHz, FM, multiplex operation, 1kW, 208VAC 3ph 60Hz, for troposcatter
AN/TRC-132A	Radio set, variant of AN/TRC-132, 10 kW
AN/TRC-138	Radio set, transportable, variant of AN/GRC-144 for repeater usage
AN/TRC-143	Radio set, transportable, similar to AN/GRC-50
AN/TRC-151	Radio set, transportable, variant of AN/GRC-50, but with dual set of major components
AN/TRC-152	Radio set, transportable, variant of AN/GRC-50, but with triple set of major components
AN/TRC-156	Radio set, transportable, 240-315MHz, FM, TACSATCOM-1 ground terminal system, 2 or 20w, 20-28VDC, 120lbs
AN/TRC-157	Radio set, transportable, 240-315MHz, FM, TACSATCOM-1 ground terminal system, 1-500w, 115/230 VAC 60Hz
AN/TRR-30	Receiver, 7.25-8GHz, FM, TACSATCOM-1 alert monitor, 18-30VDC
AN/TRR-32	Receiver, same capabilities as AN/TRR-30
AN/TSC-61A	Ground station, air-traffic control, transportable, major components: AN/ARC-51BX, AN/ARC-73A, AN/ARC-102, and AN/VRC-46 sets
AN/TSC-74	Control center, shelter mounted, ground communications, major components AN/GRC-106 and

AN/VRC-46 sets

AN/TSC-79	Radio set, transportable, 7.25-8GHz, FM, TACSATCOM-1 ground terminal, 3w, 20-28VDC.
AN/TSC-80	Radio set, transportable, 7.25-8GHz, FM, TACSATCOM-1 ground terminal, 1.5-500w, 115/230VAC 60Hz
AN/TSC-85	Similar to AN/TSC-80, but 500w
AN/TSC-93	Similar to AN/TSC-85
AN/TSQ-70A	Ground station, air traffic control, transportable, major components: AN/ARC-51BX, AN/ARC-73A, AN/ARC-102, RT-524, and RT-511
AN/TSQ-71A	Shelter, for dual GCA installations, major components: AN/ARC-51BX, AN/ARC-73A, AN/VRC-46
	AN/TSQ-72A Ground station, air traffic control, major components: AN/ARC-51BX, AN/ARC-73A, AN/ARC-102, AN/VRC-46
AN/URC-8(XN-1)	Receiver-transmitter set, 2-30mHz, four bands, major components: R-627, T-474 and PP-1190, Collins Radio
AN/URC-10A	Transceiver, portable, air/sea rescue, 240-260mHz, two channels, AM, 200mw, 16VDC
AN/URC-11	Transmitter, air/sea rescue, single chan 243.0mHz, AM, odd power requirements, Korean war
AN/URC-68	Transceiver, 38-42 and 230-250mHz, 4 chan, xtal control, FM, 200mw UHF, 500mw VHF, 11-16VDC from BA-1112/U mil-type battery, common frequencies: 38.9, 40.1, 40.5, 41.0, 235.0, 241.0, and 245.5 mHz.
AN/URC-100	Transceiver, 30-88 and 225-400mHz, AM (UHF)/FM (VHF and via SATCOM), scrambled speech, manpack, Motorola
AN/URC-101	Variant of AN/URC-100, but 116-150 and 225-400mHz
AN/URC-104	Variant of AN/URC-100
AN/VRC-7	Transceiver, 47-58mHz, FM, cont tuning, 2 presets,

0.5w, 6 and 90VDC, major component: RT-70/GRC

AN/VRC-12	Radio set, vehicular/fixed use, 30-76mHz, FM, major components: RT-246/VRC, RT-524/VRC, R-442/VRC
AN/VRC-24A	Radio set, 225-400mHz, AM, vehicular version of AN/TRC-68A, major component: OA-2648/VRC-24A
AN/VRC-29	Radio set, National Guard/Army Reserve, similar to AN/GRC-46, but for armored personnel carriers, major component AN/GRC-19, replaced by AN/VSC-3
AN/VRC-34	Radio set, vehicular version of AN/GRC-87
AN/VRC-42	Radio set, short range, vehicular and fixed use, major components RT-246/VRC, RT-524/VRC, R-442/VRC
AN/VRC-43	Variant of AN/VRC-42
AN/VRC-44	Variant of AN/VRC-42
AN/VRC-45	Variant of AN/VRC-42
AN/VRC-46	Variant of AN/VRC-42
AN/VRC-47	Variant of AN/VRC-42
AN/VRC-48	Variant of AN/VRC-42
AN/VRC-53	Radio set, vehicular form of AN/PRC-25 and GRC-125
AN/VRC-64	Radio set, vehicular form of AN/PRC-77
AN/VSC-2	Radio set, HF, RTTY/AM/SSB/CW, major component: RT-662, replaced AN/VSC-1, variant of AN/GRC-122 and AN/GRC-142
AN/VSC-3	Radio set, similar to AN/VSC-2, replaces AN/VRC-29
AN/WRR-3	Receiver, 14-600kHz, 5 bands, AM/CW, 7&9 pin tube, mech digital frequency readout, 117VAC 60/400Hz, 80lbs, major component R-1134/WRR-3
BC-191	Transmitter
BC-223	Transmitter, 2-5.2mHz (plug-in tuning units, 2-3, 3-4.5 and 4.5-5.2mHz), AM/CW, 25w, tubes: 801 osc and amp, 46 mod, designed to load into 15' whip,

part of SCR-245

BC-312 Receiver, 1.5-18mHz

BC-314 Receiver, LW

BC-342 Receiver, HF

BC-348 Receiver, 200-500kHz and 1.5-18mHz, six bands,
AM/CW, crystal filter, 915 kHz IF, BFO, MVC/AVC,
28v, 3a for DM-28 dynamotor, 10.5"x18"x9.5", 44lbs,
variants:

Model	Manufacturer	Tube line-up
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E	RCA	41,6B8,6C5,6F7,6K7 (3)
H	Belmont Radio	6B8G, 6C5, 6F7, 6J7 6K6GT, 6K7 (3)
J	Wells-Gardner	6SR7, 6K6GT, 6SA7, 6SJ7 6SK7WA (4)
K	Belmont Radio	same as H
L	Belmont Radio	same as H
M	Stromberg-Carlson	same as E
N	Wells-Gardner	same as J
O	RCA	same as E
P	RCA	same as E
Q	Wells-Gardner	same as J
R	Belmont Radio	same as H
S	RCA	same as E

(we could use more info on variants)

BC-375 Transmitter

BC-453 Receiver, AN/ARC-5 "Command Set", aka: R-23/ARC-5
and CBY-46129(ATA/ARA), 190-550kHz, IF 85kHz,
6-tubes, VFO, 28VDC

BC-454 Receiver, AN/ARC-5 "Command Set", aka: R-26/ARC-5
and CBY-46105(ATA/ARA), 3.0-6.0mHz, IF 1415kHz,
6-tubes, VFO, 28VDC

BC-455 Receiver, AN/ARC-5 "Command Set", aka: R-27/ARC-5
and CBY-46106(ATA/ARA), 6.0-9.1mHz, IF 2830kHz,
6-tubes, VFO, 28VDC

BC-457 Transmitter, AN/ARC-5 "Command Set", aka: T-19/ARC-5
and CBY-52209(ATA/ARA), 3.0-4.0mHz, 4-tubes, VFO,

28VDC

BC-459	Transmitter, AN/ARC-5 "Command Set", aka: T-22/ARC-5 and CBY-52211(ATA/ARA), 7.0-9.1mHz, 4-tubes, VFO, 28VDC
BC-603	Receiver, 20-28mHz, FM, continuous thumb wheel tuning plus 10 presets, tubes, squelch, built-in speaker
BC-610	Transmitter, 1.5-18mHz, AM/CW, 400w, (Eimac 250TH final), frequency by plug-in tuning units and final coils (up to three at once), FT-171B xtals, part of SCR-299, SCR-399, SCR-499, or GRC-38, AM requires BC-614 (or Hallicrafters HT-5) speech amplifier, 390 lbs (without BC-614), 1939-1955, Hallicrafters (based on HT-4)
BC-778	Transmitter, "Gibson Girl", WWII, rescue, hand cranked, automatic SOS on 500 and 8364kHz, hand keyed on 500kHz, watertight case, built-in key and deployable antenna, 18lbs
BC-946	Receiver, AN/ARC-5 "Command Set", aka: R-24/ARC-5 and CBY-46145(ATA/ARA), 520-1500kHz, IF 239kHz, 6-tubes, VFO, 28VDC
BC-1255	Receiver, 70-150mHz, vacuum tube, 6" cube, R. L. Drake
C-605	Control box, used with RT-173/ARC-33
C-2006A	Control box, used with RT-173/ARC-33
C-4074	Control box, used with AN/ARC-73
C-4390	Control box, used with AN/ARC-102
C-7088	Control box, used with AN/ARC-131
C-7197	Control head, for AN/ARC-134
CAY-46076-A	Receiver, 0.2-2mHz, requires either CAY-21387-A dynamotor or CAY-20086 rectifier power supply and CAY-23278 control unit, Westinghouse Electric, part of RBM-5
CAY-46077-A	Receiver, 2-20mHz, requires either CAY-21387-A

dynamotor or CAY-20086 rectifier power supply and CAY-23278 control unit, Westinghouse Electric, part of RBM-5

CAY-23278	Control box for RBM-5
CRV-46151	Receiver, 1.95-9.05 kHz, 4 Bands, analog turret tuning, triple conversion, octal tubes plus ballast, 26.8lbs, 8"x6.5"x15.5", RCA Contract No. NOS-98559, Feb 23,1942
CU-1424/U	Antenna coupler, 8 receiver distribution, 2-32mHz, solid-state, 1.5dB gain, 8dB max noise figure, 72ohm in & out, "C" connectors, rack mount 3.5" high
CU-1638/GR	Antenna coupler, 6 receiver distribution amp, 2-30mHz, 3 dB gain, 7 dB max noise figure, 50 ohm in & out, "N" connectors, rack mount 3.5" high, 15 lbs
CV-116/URR	FSK converter, receive only, 450-510kHz IF, rack mount 8.75", 80 lbs
CV-431	Frequency converter/transmitter, 228-258mHz, AM, 16 chan, 2w, 28VDC, major component of AN/ARC-60A
CV-591A/URR	Converter, USB/LSB, 455kHz IF, 7/9 pin tubes, remote controllable, rack mount 5.25" high, 24lbs, Technical Materiel Corp.
CV-1750	Receiving converter, 235-1000mHz, 60mHz IF out, round dials, nuvistors, 7077s & 7486, rack mount 3.5" high, Communications Electronics Inc.
CV-1758/URR	Converter, USB/LSB, 455kHz IF, 7/9 pin tubes, rack mount 5.25" high, 24lbs, Technical Materiel Corp.
CV-1892/TSC-26	SSB converter, USB/LSB, 455kHz IF, nuvistors, audio, carrier & sub-carrier meters, AFC, rack mount 5.25", 29 lbs
CY-1218/GRC	Control box, for AN/GRC-38, similar to the JB-70 control box, Hallicrafters
G-133	Receiver, 0.2-30mHz, AM/CW/SSB, tubes, Collins 51S1 converted to military aero by LTV, 117VAC 60/400Hz, and 24VDC (for panel lights), 40 lbs

ID6/APN4	Indicator, LORAN readout, five inch, used with APN-4 LORAN set, APN-4 was the first LORAN set
IP-751	Spectrum display unit, 21.4mHz IF, bandwidth variable to 3mHz, 1"h X 3"w CRT, rack mount 3.5" high, Communication Electronics, Inc. (model SM-9310A)
JB-70	Control box, used with SCR-399
MD-7	AM speech modulator, AN/ARC-5 "Command Set"
ME-165/G	Standing wave ratio power meter, internal 50 ohm/600 watt dummy load, 0-600 watt meter, uses twelve 600 ohm non-inductive resistors, 9.8"h X 10.5"w X 9.8"d, 20 lbs, designed for T-368
MXF-327	RF/AF Amplifier, 30-80 mHz, 15W RF, 12-30VDC, used with PRC-68A and -68B handheld in vehicular mount.
OA-2648	Transceiver, 225-400mHz, 1750 chan, 100kHz spacing AM, 1.5w, 24VDC or 115/230VAC 50-60Hz, major component of AN/VRC-24A
OA-2649	Similar to OA-2648, but for AN/TRC-68A set
PE-55	Dynamotor power supply for SCR-245
PP-114/VRC-3	Power supply for SCR-300 (BC-1000) WWII backpack radio, vibrator, for vehicular use
PP-629/URR	Power supply for R-391 autotune circuit, 24VDC, 3amps
PP-1190(XN-1)/URC-8	Power supply for T-474/URC-8 and R-627/URC-8, 122lbs, Collins Radio
PP-2684	Power supply for T-784/GRC-109 and R-1004/GRC-109, input 75, 90, 110, 130, 150, 180, 220, 260 VAC and 6 VDC, output 6.3 VAC @ 1.5A, 450 VDC @ 100 mA, 1.5 VDC @ 300 mA, 108 VDC @ 20 mA regulated, 10" X 8.5" X 5.5", 28 pounds, Admiral Corporation, 1962-1969. Part of AN/GRC-109.
PP-2684A	as above, except different case and cover fasteners. Oklahoma Aerotronics Inc., 1969-1973

PP-2685 Power supply for T-784/GRC-109 and R-1004/GRC-109,
Input 75, 90, 110, 130, 150, 180, 220, 260 VAC.
Output same as PP-2684. 8.5" X 5.5" X 5.5", 12lbs,
Admiral Corp., 1962-1969

PP-2685A as above, except different case and cover fasteners.
Oklahoma Aerotronics Inc., 1969-1973

R-23/ARC-5 Receiver, AN/ARC-5 "Command Set", aka:
BC-453(SCR-274N) and CBY-46129(ATA/ARA),
190-550kHz, IF 85kHz, 6-tubes, VFO, 28VDC

R-24/ARC-5 Receiver, AN/ARC-5 "Command Set", aka:
BC-946(SCR-274N) and CBY-46145(ATA/ARA),
520-1500kHz, IF 239kHz, 6-tubes, VFO, 28VDC

R-25/ARC-5 Receiver, AN/ARC-5 "Command Set", aka:
CBY-46104(ATA/ARA), 1.5-3.0mHz, IF 705kHz, 6-tubes,
VFO, 28VDC

R-26/ARC-5 Receiver, AN/ARC-5 "Command Set", aka:
BC-454(SCR-274N) and CBY-46105(ATA/ARA),
3.0-6.0mHz, IF 1415kHz, 6-tubes, VFO, 28VDC

R-27/ARC-5 Receiver, AN/ARC-5 "Command Set", aka:
BC-455(SCR-274N) and CBY-46106(ATA/ARA),
6.0-9.1mHz, IF 2830kHz, 6-tubes, VFO, 28VDC

R-48/TRC-8 Receiver, 230-250mHz, guards 243.0mHz, tubes
built-in speaker, squelch, 117VAC, 75lbs

R-77/ARC-3 Receiver, 100-156mHz, 8 chan, xtal control,
6uV sensitivity, remote controllable, part of
AN/AFR-3

R-105/ARR-15 Receiver, 1.5-18.5mHz, 6 bands, 10 autotune memory
channels or continuous manual tuning, unique
tunable IF allows tuning to 1kHz accuracy (ref. to
internal 100kHz calibrator), AM/CW, local or remote
control, 14 tubes, 12A6, 12H6, 12SL7 (2), 12SG7
(5), 12SJ7 (5) plus crystal detector, 7.9"h x
10.4"w x 21.6"d, 39.5lbs with dynamotor, 26.5VDC,
used with AN/ART-13 transmitter

R-105A/ARR-15 Receiver, 1.5-18mHz, similiar to R-105 but with
improved detector, calibrator and audio output
stages, 14 tubes, 12A6, 12H6, 12SL7 (3), 12SG7
(5), 12SJ7 (4), (crystal detector replaced by 1/2

12SL7), used with AN/ART-13 transmitter, (postwar: became Collins 51H-3, list price \$1200), production:

contract	date	manufacturer	quantity
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NOas-51-259	1951	Collins Radio	unknown
NOas-53-983	1953	Collins Radio	unknown

R-108/GRC	Receiver, 20-28mHz, FM, tubes, 135VDC and 6VDC, 32lbs, part of AN/GRC-8 set.
R-109/GRC	Receiver, 27-39mHz, otherwise same as R-108
R-110/GRC	Receiver, 38-54mHz, otherwise same as R-108
R-125/GRC-10	Receiver, 54-80mHz, FM
R-174/GRR-5	Receiver, 1.5-18.0mHz, 4 bands, AM/SSB/CW, 8 tubes, no speaker, 8 and 600 ohm output, 90 and 1.5VDC, 23lbs
R-220/URR	Receiver, 20-230mHz, seven bands, AM/FM/CW, bandwidths: 10/50/200kHz, 5mHz xtal calibrator, uses wire-lead sub-mini and 7&9 pin mini tubes, 95ohm twinax ant input, outputs for panadapter and RDF, rack mount 10.5" high, 80lbs, 115VAC, 60Hz, Motorola Corp., see also R-1538/GLQ-3
R-274A/FRR	Receiver, 0.54-54mHz, six bands, AM/CW, two versions: Hammurlund SP-600JX or Hallicrafters SX-73, rack mount 10.5" high
R-274C/FRR	Receiver, 0.54-54mHz, same as R-274A/URR except: provisions for fixed frequency xtal control operation
R-278A/G	Receiver, 225-400mHz, 100kHz, autotune, 44 tubes, requires external speaker or headphones, 12"h X 19"w X 21"d, 115 lbs, Collins Radio, used in AN/GRD-6 radio direction finder
R-278A/GR	Receiver, 225-400mHz, same as R-278A/G except: rack mount, cannot be used with AN/GRD-6
R-388/URR	Receiver, 0.5-30.5 mHz, 30 bands, linear analog tuning, 5-step crystal filter, S-meter, AM/CW, 117VAC 60Hz, militarized version of Collins Radio

51J-3, production:

contract	year	manufacturer	quantity
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1908-PHILA-51	1951	Collins Radio	unknown
3131-PHILA-51	1951	Collins Radio	unknown
3164-PH-51	1951	Collins Radio	unknown
25635-PHILA-53-36	1953	Collins Radio	unknown

R-388A/URR Receiver, 0.5-30.5mHz, similar to R-388/URR
mechanical filters, militarized version of Collins
51J-4

R-389 Receiver, 15-1500kHz, 2 ranges, 7 bands, mechanical
digital dial, PTO, AM/CW, bandwidths:
0.1/1/2/4/8kHz, (0.1&1 xtal), 7&9 pin tubes,
autotune, dual audio chains, squelch, rack mount
10.5" high, 82 lbs, production:

contract	year	manufacturer	quantity
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14214-PH-51	1951	Collins Radio	unknown

R-390 Receiver, 0.5-32mHz, thirty-two 1mHz bands,
mechanical digital dial, PTO, AM/CW, bandwidths:
0.1/1/2/4/8/16kHz (0.1&1 xtal, no mech filters),
7&9 pin and 2-6082 tubes(hv reg), dual audio
chains, squelch, two RF stages, 125 ohm balanced
antenna in w/twinax and unbalanced w/"C"
connectors, rack mount 10.5" high, 90lbs,
production:

contract	year	manufacturer	quantity
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14214-PH-51	1951	Collins Radio	unknown
26579-PH-52	1952	Motorola	unknown

R-390A Receiver, 0.5-32mHz, thirty-two 1mHz bands,
mechanical digital dial, PTO, AM/CW, bandwidths:
0.1/1/2/4/8/16 kHz (0.1&1 xtal, others mech), 7&9
pin tubes, dual audio chains, single RF stage, 125
ohm balanced ant input w/twinax or unbalanced w/"C"
connector, rack mount 10.5" high, 85lbs,
production:

contract	year	manufacturer	quantity
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14214-PH-51	1955	Collins Radio	300-400

63-PH-54	1955	Motorola	10,000
375-PH-54	1955	Collins Radio	10,000
08719-PH-55	1956	Collins Radio	10,000
14-PH-56	1956	Motorola	10,000
14385-PH-58	1958	Motorola	10,000
42428-PC-58	1959	Stewart-Warner	10,000
20139-PC-60-A1-51	1960	Stewart-Warner	10,000
23137-PC-60	1960	Electronic Asst. Corp.	10,000
21852-PC-61	1961	Capehart Corp.	10,000
35064-PC-62	1962	Amelco	10,000
37856-PC-63	1963	Teledyne/Imperial	10,000
DA-36-039-SC-81547	1963	Stewart-Warner	10,000
FR-11-022-C-4-26418(E)	1966	Comm. Systems	10,000
FR-36-039-N-6-00189(E) or DAAB05-67-C-0155	1967	Electronic Asst. Corp.	10,000
DAAB05-68-C-0040	1968	Dittmore-Freimuth	unknown

(for more information see "Electric Radio" #24 & #27)

R-391 Receiver, identical to R-390 except w/8 channel autotune mechanical memory (requires external 24VDC 3amp supply, PP-629/URR), 87.2lbs, production:

contract	year	manufacturer	quantity
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21852-PH-50-93	1950	Collins	unknown
14214-PH-51	1951	Collins	unknown
11424-PH-51	1951	Collins	unknown

R-392 Receiver, 0.5-32mHz, thirty-two 1mHz bands, mechanical digital dial, PTO, AM/CW, bandwidths: 2/4/8kHz, 7&9 pin & octal tubes including 26A6, 26A7, 26C6 & 26D6, ruggedized watertight vehicular case: 11.5"h X 14.5"w X 11"d, 58lbs, 28VDC 5amps, production:

contract	date	manufacturer	quantity
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3075-PH-51	1951	Collins Radio	unknown
11653-PH-52	1952	Collins (subcontracts to Stewart-Warner and Stromberg-Carlson)	unknown
52713-PP-61	1961	Dubrow Electronic Ind.	unknown
15283-PP-63	1963	Western Electric	unknown

R-417 Receiver, 50-1875mHz, 6 bands, RTTY/FAX and other specialized emissions, part of the AN/TRC-24 set, 115VAC 60Hz

R-418/G	Receiver, 1.7-2.4GHz, pulse-position modulated accessory equipment, AN/TRC-29 set, 115VAC 60Hz
R-442/VRC	Receiver, 30-76mHz, 920 chan, part of AN/VRC-12, AN/VRC-44, AN/VRC-47, and AN/VRC-48 sets, 24 VDC
R-508	Receiver, 228-258mHz, AN/ARC-60A set, 28VDC
R-543/TRC-29	"Order wire receiver", 1.7-2.4GHz, part of AN/TRC-29 set, 115VAC 60Hz
R-627/URC-8	Receiver, 2-30mHz, four bands, AM/CW, tubes, PTO or xtal control, bandwidths: 2/8.4kHz (mech filters), requires PP-1190 power supply, rack mount 10.5" high, 91lbs, manual: Navships 92831, used with T-474/URC-8, Collins Radio
R-648/ARR-41	Receiver, 190-550kHz and 2-25mHz, AM/CW, tubes, mech digital frequency readout, mech filters, BFO, dial lock, 24VDC dynamotor, 35lbs
R-808/GRC-14	Receiver, 2-32mHz, AM/CW/FSK narrow/wide, built-in RTTY converter, 117VAC or 24VDC, 130lbs
R-892/URR-44	Receiver, 0.54-19mHz, AM, tubes, 117VAC 60Hz, 70lbs
R-902A/L	Receiver, 1.5-8mHz, AM/CW, remote-control by 45-bit serial data stream, requires 5, 15, and 36 VDC, (difficult to convert to civilian use)
R-1004/GRC-109	Receiver, 3-22 MHz, three bands, mechanical analog dial, AM/CW, 6 tubes (1T4, 1U5, 1L6), single conversion, 455kHz IF, 8.5" X 5.5" X 5.5", 11lbs, Admiral Corp., 1.4VDC@300mA, 108VDC@30mA, 1962-1969, part of AN/GRC-109
R-1004A/GRC-109	as above, except different case and cover fasteners. Oklahoma Aerotronics Inc., 1969-1973
R-1051	Receiver, 2-30mHz, direct dial frequency synthesis, 0.5kHz increments, USB/LSB/ISB/AM/FSK, bandwidths: 3.1/6kHz (tied to mode), solid-state except for two rf tubes, 7"h X 17.4"w X 18.9"d, 84 lbs
R-1051B	As above except tunes to 0.1kHz increments
R-1121/TRC-87	Receiver, 225-400mHz, 50kHz spacing, AM, 120/208VAC 400Hz 3ph, allegedly operable on 117VAC 60Hz,

Motorola

R-1123/ARC-73 Receiver, 116-152mHz, 720 chan, AM, 28VDC, part of AN/ARC-73 set, used w/C-4074 control head

R-1134/WRR-3() Receiver, 14-600kHz, AM/CW, mech digital freq readout, tubes, 117VAC 60/400Hz, 80 lbs, Bendix Radio, no data on A or B variants

R-1287/GRC-143 Receiver, 4.4-5gHz, multichannel PCM equip: 3200F9, 115/230VAC 47-63Hz

R-1307/URR Receiver/freq. selective voltmeter, 0.3-800kHz, six bands, analog dial, AM/FM/USB/LSB/CW, bandwidths: 1/2/4/8kHz, 7&9 pin/nuvistor tubes, rack mount 9"h, 25 lbs, Rycom (Railway Communications)

R-1329 Receiver, 220-1850mHz, 4 bands, 500F9, 115VAC 47-420Hz

R-1331 Receiver, 601-1000mHz and 1350-1850mHz, cont tuning, FM/1200F9, 115VAC 47-63Hz

R-1401 Receiver, 1-600kHz, 6 digit electronic counter w/DAFC, AM/CW/USB/LSB/MCW/FSK, bandwidths: 0.15/1/3/6kHz, solid-state w/nixies in counter, ant attn, noise blanker, s-meter, rack mount 3.5"h, 34 lbs, Communications Electronics Inc. (model 357)

R-1420/URR Receiver, 30-300mHz, two bands/tuners, analog filmstrip dial, bandwidths: 20/300kHz, nuvistors and solid-state, rack mount 3.5"h, Communications Electronics, Inc. (model 905A)

R-1467 Receiver, 4.4-5gHz, 3000F9, 120VAC 60Hz

R-1490A/G Variant of R-1401, specs unknown

R-1538/GLQ-3 Receiver, 20-230mHz, same as R-220/URR except: 115VAC, 400Hz modular internal supply

R-2093/TRQ-35V Spectrum monitor, 2-30mHz, 3kHz steps, AM/SSB/FM, mil. version of BR Communications Model RSS-4 HF, 25 kHz bandwidth, 30 minutes activity memory

R-2174/URR Receiver/freq. selective voltmeter, 0.3-420kHz, six bands, analog dial, AM/USB/LSB, bandwidths: 0.1/3/10 kHz, 7&9 pin tubes, rack mount 9" high, 25

lbs, Rycom (Railway Communications)

R-2174/URR	Receiver, Racal RA-6790/GM need more info
RBM-5	Receiver system, consists of 2 receivers CAY-46076-A (0.2-2mHz) and CAY-46077-A (2-20mHz), either CAY-21387-A dynamotor or CAY-20086 rectifier power supply and CAY-23278 control unit, AM/CW/MCW, Westinghouse Electric, contract no. NXsr-38081, companion transmitter: TDE (ground version of TBW and G0-9)
RC-3A/GSQ-151	Receiver, seismic detection, 126.6 mHz fixed, 9 VDC
RP-1	Power supply for RT-3 and RR-2. Input 75, 90, 110, 130, 150, 180, 220, 260VAC and 6VDC, output 6.3VAC@1.5A, 450VDC@100mA, 1.5VDC@300mA, 108VDC@20mA regulated, 10" X 8.5" X 5.5", 28lbs, Admiral Corp., built for CIA, 1950-1962, part of RS-1
RP-2	Power supply for RT-3 and RR-2. Input 75, 90, 110, 130, 150, 180, 220, 260VAC. Output same as RP-1. 8.5" X 5.5" X 5.5", 12 lbs, Admiral Corp., built for CIA, 1950-1962, part of RS-1
RR-2	Receiver, 3-22mHz, three bands, mechanical analog dial, AM/CW, 6 tubes (1T4, 1U5, 1L6), single conversion, 455kHz IF, 8.5" X 5.5" X 5.5", 11lbs, Admiral Corp., 1.4VDC @ 300mA, 108VDC @ 30mA, built for CIA, 1950-1962, part of RS-1
RS-1	Radio Set, 3-22MHz, consists of: RT-3 transmitter, RR-2 receiver, RP-2 AC power supply, RP-1 AC/DC power supply, built for CIA, also see AN/GRC-109 and individual entries
RT-3	Transmitter, 3-22MHz, three bands, crystal control (FT-243), CW, 6AC7 oscillator, 2E26 final amp, built-in key, 8.5" X 5.5" X 5.5", 12lbs, Admiral Corp., 6.3V AC/DC@1.5A, 450VDC@100mA, 1962-1969, part of RS-1
RT-60	Transceiver, air/sea rescue, 240-260 and 270-290mHz (normally set for 243.0 and 282.8mHz), AM
RT-66	Transceiver, 20-28mHz, cont tuning or presets, FM, 27 tubes, 12 or 24VDC from PP-109, PP-112, or

PP-282 power supplies, 42 lbs

RT-67	Transceiver, similar to RT-66, 27-39mHz
RT-67/PRC-47	Transceiver, 2-12mHz, 1kHz steps, digital tuning, SSB/CW, 20 and 100w (PEP), major component of AN/PRC-47 set, 24 or 26.5VDC or 115VAC 400Hz
RT-68	Transceiver, similar to RT-66, 38-55mHz
RT-70/GRC	Transceiver, 47-58mHz, cont tuning or two presets, FM, 1/2w, 90 and 6VDC, major component of AN/VRC-7 set, Korean war
RT-77/GRC-9	Transceiver, 2-12mHz, cont tuning, AM/CW, 15w CW, 7w AM, 6, 12 or 24VDC, part of AN/GRC-87 and AN/GRC-34 sets
RT-159B/URC-4	Transceiver, 121.5/243.0 mHz, xtal control, AM/MCW, portable, mini tubes, separate battery pack, extendable "rabbit ears" like antenna, Philharmonic Radio and Telephone Corp. contract no. AF-33(600)-21243
RT-173/ARC-33	Transceiver, 225-399.9mHz, 100kHz chan spacing, 20 presets, AM, 8W, used w/C-605 or C-2006A control box, 28VDC w/dynamotor DY-63, Bendix Radio
RT-174/PRC-8	Transceiver, major component of AN/PRC-8
RT-175/PRC-9	Transceiver, major component of AN/PRC-9
RT-176/PRC-10	Transceiver, major component of AN/PRC-10.
RT-196/PRC-6	Transceiver, 47-55.4mHz, crystal control (CR-23), hand-held, 13 tubes, 1.5, 45, and 90VDC, 6lbs, replaced by AN/PRR-9 and AN/PRT-4 combo set, Korean war
RT-246/VRC	Transceiver, 30-76mHz, 10 autotune presets, FM, 10-35w, major part of AN/VRC-12, 56lbs
RT-294B	Transceiver, 24-52mHz, 280 chan, 1kHz spacing, FM, 8w, major component of AN/ARC-44, uses SB-327/ARC-44 control head, 28VDC
RT-295	Transceiver, 225-400mHz, 1750 chan, AM, 1w, part of AN/ARC-45, requires 28, 150 and 300VDC

RT-311/ARC-38	Transceiver, 2-25mHz, 20 autotune presets, AM, 100w (above 14 mHz), 90w (below 14 mHz), similar to Collins 618-S1, 25 tubes, requires 28, 250, 600, -50, -65 and 6VDC, and 117VAC 400Hz, no SSB (see RT-594 for SSB), 65lbs
RT-348/ARC-54	Transceiver, 30-40mHz, 50kHz spacing, FM, 10w, major component of ARC-54, 28VDC
RT-380/AR	Transceiver, 2-18mHz, AM/CW, similar to Collins 18S4, 100w, 10 chan, 16 tubes, 600 ohm audio, requires 400, 750 and 28VDC, Collins
RT-505/PRC-25	Transceiver, 30-76mHz, 920 chan, 50kHz spacing, FM, 1-2w, solid-state except 2DF4 final, 20VDC from mil-type BA-4386 battery, 18lbs
RT-524/VRC	Transceiver, manual tuning version of RT-246/VRC, built-in speaker, part of AN/VRC-12 and AN/TSQ-70A sets, and in modified form of AN/GRC-163 sets
RT-594/ARC-38A	Transceiver, like the RT-311/ARC-38, but w/SSB
RT-662/GRC	Transceiver, 2-30mHz, 1kHz chan spacing, SSB/CW, 200w CW, 400w (PEP) SSB, 27VDC, major component of AN/GRC-106, AN/GRC-122, AN/GRC-144, AN/VSC-2, and AN/VSC-3 sets, 27VDC, 47lbs
RT-671	Transceiver, 2-11.999mHz, 20/100w PEP, USB, digital /1kHz steps, solid-state except: 5907, 7761, 7905 & PL-177WA final, 7" h X 21.25" w X 13.5" d, 45 lbs, Collins Radio, 24VDC 20amps or 115VAC 400Hz
RT-695	Transceiver, 225-400mHz, crystal control, AM, 3w, 24VDC, major component in AN/PRC-41
RT-695A	Transceiver, variant of RT-695, allows for speech scrambling, major component of AN/PRC-41A
RT-698/ARC-94	Transceiver, 2-29.999 mHz, 28,000 1kHz chan, USB/LSB/ISB/AM/CW, 100w AM/CW, 400w PEP SSB, transistorized except for RF and finals, used w/714E-2 or control box, 208VAC 400Hz, (mil version of 618T).
RT-698/ARC-102	Transceiver, 2-29.999mHz, 1kHz channels, AM/CW/SSB, 100w AM/CW, 400w (PEP) SSB, used with C-3490

control head, 28VDC, 64lbs

RT-698/ARC-119	Transceiver, same as RT-698/ARC-94 except 27.5VDC and used with 714E-2A control box
RT-698/ARC-120	Transceiver, same as RT-698/ARC-94 except 115VAC 400Hz and used with 713E-3 control box
RT-702/ARC-51X	Transceiver, 225-399.9mHz, 1750 chan, 100kHz spacing, AM, 16w, 28VDC inverted to 115VAC 400Hz, guards 243.0mHz
RT-718	Transceiver, 3.4-5 and 6.5-30mHz, cont tuning, SSB/CW, 100w (PEP), 110/220VAC 50-400Hz or 12VDC (using MP-1 power supply), part of AN/FRC-93 set, Collins Radio
RT-742/ARC-51BX	Transceiver, similar to RT-702/ARC-51X, but 50kHz chan spacing
RT-759/ARC-112	Transceiver, 2-29.999 mHz, 28,000 1kHz chan, USB/LSB/ISB/AM/CW, transistorized except for RF and finals, pressurized case, Collins Radio (modified version of 618T)
RT-823	Transceiver, 30-76mHz, 920 chan, FM, 1 and 10 w, part of AN/ARC-131 set, used w/C-7088/ARC-131 control head, 28VDC, 27lbs (+3 lbs with C-7088)
RT-834/GRC	Transceiver, version of RT-662/GRC, but 100Hz spacing
RT-841/PRC-77	Transceiver, 30-76mHz, 920 chan, 50kHz spacing, FM, 1-2w, 24VDC from mil-type BA-4386 battery, similar to RT-505/PRC-25, but solid-state, part of AN/PRC-77, AN/VRC-64, and AN/GRC-160 sets
RT-857/ARC-134	Transceiver, 116-150mHz, 1360 chan, 25kHz spacing, AM, 25-40w, 28VDC, used with C-7197 control head, 20 lbs, RT-857/ARC-134B variant has 50 kHz spacing, made by Wilcox
RT-1167/ARC-164	Transceiver, 225-400mHz, 25kHz chan spacing, CW or scrambled/unscrambled AM, 1-10w, 18, 24 or 28VDC
RT-1393/USQ	Transceiver, advanced all purpose, HF, 284,000 chan, 100 field programmable memory channels, simplex, duplex or semi-duplex operation, AM/SSB/ISB, LED

freq readout

RT-1406/PRC-117 Transceiver, 30-90MHz, 2400 chan, 25kHz spacing, 8 presets, FM, 1 or 10w (0.1w model avail), 12VDC, automatic frequency hopping capability

SCR-245 Radio set, major components: BC-223, BC-312, PE-55, 1.5-18mHz rx, 2-5.2mHz tx, 12/24VDC, short-range vehicular use

SCR-274N Signal Corps designation for AN/ARC-5 "Command Set".

SCR-299 Radio set, major components: BC-610, (2) BC-312

SCR-399 Radio set, major components: BC-610, (2) BC-314

SCR-499 Radio set, major components: BC-610, (2) BC-318

T-19/ARC-5 Transmitter, AN/ARC-5 "Command Set", aka: BC-457(SCR-274N) and CBY-52209(ATA/ARA), 3.0-4.0mHz, 4 tubes, VFO, 28VDC

T-22/ARC-5 Transmitter, AN/ARC-5 "Command Set", aka: BC-459(SCR-274N) and CBY-52211(ATA/ARA), 7.0-9.01mHz, 4 tubes, VFO, 28VDC

T-47/ART-13 Transmitter, 2-18mHz, AM/CW/MCW, 100w, 11 chan autotune mechanical memory, uses C-87 control box, tube line-up: 6V6, 12SA7, (2) 12SJ7, (2) 12SL7, (2) 811, 813, 837, and (2) 1625, requires 24VDC 10A, 400VDC 225ma. and 1250VDC 250ma, dynamotor DY-12/17, 23.5" x 16" x 11", 85 lbs, part of AN/ART-13, used with AN/ARR-15() receiver

T-74/CRT-3 Transmitter, "Gibson Girl", see BC-778

T-195/GRC-19 Transmitter, 1.5-20mHz, 80-100w plate mod AM/CW, 4 bands, PT0, autotune, antenna coupler, 4X150D final, 2-4X150D mod, 11.5h X 22w X 14.25d, 135 lbs, 28VDC 42amps, Collins Radio

T-235/GRC-10 Transmitter, 54-71mHz, cont tuning, 10 and 40w, 60F9 and 80F9, part of AN/GRC-10, AN/GRC-39, AN/GRC-40, AN/MRC-68A, and AN/MRC-112, 26VDC or 115/230VAC 60Hz

T-302 Transmitter, 50-1875mHz, various emissions, 10 to 120w, part of AN/TRC-24, AN/MRC-54, AN/MRC-69 and

AN/MRC-73, 115VAC 60Hz

T-303/G	Transmitter, 1.7-2.4GHz, 4500F9, 10w, part of AN/TRC-29, AN/TRC-38, AN/TRC-39, AN/TRC-40, and AN/TRC-41, 115VAC 60Hz
T-368/URT	Transmitter, 1.5-20mHz, 450w CW, 400w plate mod AM, 4 bands, PT0, 4-400 final, 4-125 mod, 41.5"h X 32"w X 31"d, 650 lbs, 115VAC single-phase 2200w (AM)
T-389/TRC-29	"Order Wire" Transmitter, part of AN/TRC-38, AN/TRC-39, AN/TRC-40, AN/TRC-41, and AN/TRC-29, 115VAC 60Hz
T-474/URC-8	Transmitter, 2-30mHz, four bands, PT0 or 4 xtal channels (CR-18/U), AM/CW, 42w, requires PP-1190 power supply, rack mount 10.5" high, 86lbs, manual: Navships 92831, used with R-627/URC-8, Collins Radio
T-631/GRC-14	Transmitter, 2-20mHz, 400 watts, 117VAC 60Hz
T-784/GRC-109	Transmitter, 3-22MHz, three bands, crystal control (FT-243), CW, 6AC7 oscillator, 2E26 final amp, built-in key, high-speed keyer port for AN/GRA-71, 8.5" X 5.5" X 5.5", 12 lbs, Admiral Corp., 6.3 VAC or VDC @ 1.5A, 450 VDC @ 100mA, 1962-1969. Part of AN/GRC-109
T-784A/GRC-109	as above, except different case and cover fasteners, Oklahoma Aerotronics Inc, 1969-1973. Part of AN/GRC-109
T-789/ARC-73	Transmitter, 116-150mHz, 680 chan, 80 presets, AM, 20w, requires C-4074/ARC-73A control head, 28VDC
T-893	Transmitter, 601-1000mHz and 1350-1850mHz, 1200F9, 8-30w, used with various sets, 115VAC 60Hz
T-961/GRC-143	Transmitter, 4.4-5gHz, 3200F9, 1kW, used with AN/GRC-143, AN/TRC-112, and AN/TRC-121, 115/230VAC 60Hz
T-983	Transmitter, 220-1850mHz, 500F9, 15-25w, used with several sets, 115VAC 47-420Hz
T-1054/GRC-144	Transmitter, 4.4-5gHz, 3000F9, 0.25w, part of

AN/GRC-144 and AN/TRC-138, 120VAC 60Hz

URR-52B Receiver, 30-1000MHz, analog dials, four bands/
tuners, AM/FM/CW bandwidths: 20/75/300kHz, built-in
SDU, nuvistors and solid-state, rack mount 5.25"h,
Communications Electronics, Inc. (model RS-111)

714E-2 Control box, used with RT-698/ARC-94

714E-2A Control box, used with RT-698/ARC-119

713E-3 Control box, used with RT-698/ARC-120

APPENDIX A:

The Joint Electronics Type Designation

e.g. AN/FRR-59A

AN - Army-Navy
/
F - installation
R - type of equipment
R - purpose
-
59 - model number
A - modification letter

installation	1	type of equipment
-----	1	-----
A - airborne	1	A - invisible light, heat
B - underwater	1	radiation
C - air transportable	1	B - pigeon
D - pilotless carrier	1	C - carrier
F - fixed	1	D - radiac
G - ground, general	1	E - nupac
K - amphibious	1	F - photographic
M - ground, mobile	1	G - telegraph or
P - pack, portable	1	teletypewriter
S - water surface craft, ship	1	I - interphone and PA
T - ground, transportable	1	J - electromechanical
U - general, utility	1	K - telemetering
V - ground, vehicular	1	L - countermeasures
W - water, surface	1	M - meteorological
and underwater	1	N - sound in air
	1	P - radar

-----1	Q - sonar
purpose 1	R - radio
-----1	S - special types
A - auxiliary assemblies 1	T - telephone (wire)
B - bombing 1	V - visual
C - communications 1	
D - direction finding 1	-----
E - ejection release	
G - fire control	
H - recording	
L - searchlight control	
M - maintenance and test assemblies	
N - navigation aids	
P - reproducing	
Q - special or combination of purposes	
R - receiving	
S - detecting range bearing	
T - transmitting	
W - control	

Thus an AN/FRR-59A is: Fixed Radio Receiver, model no. 59

The JETDS Nomenclature System replaced the older service specific systems. The list could use more information on these older systems. All I have so far is:

Pre-JETDS Army Designations:

SCR - Signal Corps Radio
BC - Basic Components

APPENDIX B:

Contract Numbers:

A note on contract numbers: The office where the contract was issued and the date of issuance is embedded in the contract number.

Thus contract 14214-PH-51 (an important Collins contract) was issued in Philadelphia in 1951. Equipment was often manufactured the same year (14214-PH-51 is a notable exception. See "Electric Radio", #27 for further information).

APPENDIX C:

Military equipment list volunteer guide:

Additions, corrections and suggestions are welcome. I am particularly interested in nailing down information on variants, like the differences between various BC-348s and BC-610s. Little details are as welcome as large blocks of new info. Everything helps.

The Mil List will be available via distribution list as long it can be sent via e-mail. Anyone can be on the distribution list, just drop me a note. It will be posted to the list whenever a significant revision has occurred.

To keep this thing manageable, I'd like to limit it to radio related stuff, i.e. receivers, transceivers, transmitters, amplifiers and accessories (like converters, antennas, pan-adapters, couplers, filters...). Test equipment and other electronics may emerge later.

E-mail is plain ascii text. You can type entries with any word processor program that can export plain ascii text. I use either Wordperfect or the DOS text editor that comes with v5.0 and later.

I'd like entries to be as complete as possible, BUT every little bit helps. I'd like to keep the elements of the descriptions in somewhat similar order. If you can oblige, fine. If that's too much trouble, just type away and I'll try to keep up with the editing.

Please submit your entries in the following format:

(Note that submissions are in a different format than the guide. Everything starts in column 1 (left justified). It is easier for me to strip all the ASCII hard returns and edit the text if it is submitted in this form.)

For receivers:

mil model no. type, coverage, tuning/dial type, modes,
bandwidths, tube types: hybrid, or solid-state,
additional features, size, weight, manufacturer,
power requirements (if normal, 115VAC, 60Hz, then
leave blank), production years

examples:

AN/FRR-59A Receiver, 2-32 MHz, four bands, mechanical digital dial, USB/LSB/ISB/AM/CW, 7&9 pin tubes, triple-conversion: 1625-1725/220/80 kHz, 25-1/4h X 22"w X 24"d, 300 lbs, National Radio

R-390A Receiver, 0.5-30 MHz, thirty 1 MHz bands, mechanical digital dial, PT0, AM/CW, bandwidths: 0.1/1/2/4/8/16 kHz (0.1&1 xtal, others mech), 7&9 pin tubes, dual audio chains, 125 ohm balanced ant in w/twinax or unbalanced w/"C" connector, rack mount 10-1/2" high, 95 lbs

R-1308 Receiver/freq. selective voltmeter, 0.3-800 kHz, six bands, analog dial, AM/FM/USB/LSB/CW, bandwidths: 1/2/4/8 kHz, 7&9 pin/nuvistor tubes, rack mount 9"h, 25 lbs, Rycom (Railway Communications)

for transmitters,
transceivers &
amplifiers:

mil model no. type, coverage, power/modes, bands, tuning/dial type, notable tubes/solid-state, additional features, size, weight, power requirements (if normal 115VAC, 60Hz, <10 amps, then leave blank), production years

examples:

AM-6155/GRT-22 Linear power amp, 225-400 MHz, 50w (very conservative) 10w in, Eimac X165Z final, extensive metering, can be converted to 116-150 MHz, rack mount 7" high, 80 lbs, ITT (model 3212)

RT-671 Transceiver, 2-11.999 MHz, 20/100w PEP, USB, digital /1 kHz steps, solid-state except: 5907, 7761, 7905 & PL-177WA final, 7"h X 21-1/4"w X 13-1/2"d, 45 lbs, Collins Radio, 24VDC 20amps or 115VAC 400Hz

T-195/GRC-19 Transmitter, 1.5-20 MHz, 80-100 w plate mod AM/CW, 4 bands, PT0, autotune, antenna coupler, 4X150D final 2-4X150D mod, 11-1/2h X 22w X 14-1/4d, 135 lbs, 28VDC 42amps, Collins Radio

T-368/URT Transmitter, 1.5-20 MHz, 450w CW, 400w plate mod AM,

4 bands, PT0, 4-400 final, 4-125 mod, 41-1/2"h X
32"w X 31"d, 650 lbs, 115VAC single-phase 2200w (AM)

other equipment:

mil model no. Information as appropriate

examples:

CU-1638/GR Antenna coupler, 6 receiver distribution amp, 2-30
mHz, 3 dB gain, 7 dB max noise figure, 50 ohm in &
out, "N" connectors, rack mount 3-1/2" high, 15 lbs

CV-116/URR FSK converter, receive only, 450-510 kHz IF, rack
mount 8-3/4", 80 lbs

CV-1892/TSC-26 SSB converter, USB/LSB, 455 kHz IF, nuvistors,
audio, carrier & sub-carrier meters, AFC, rack mount
5-1/4", 29 lbs

I have broken the list into units for clarity. I will assemble the
list in alphanumeric order (that's why each description should start
receiver, transmitter...).

Each time I receive a submission from you, I will forward a current
copy, with your additions included. If you don't submit entries for
a while, be sure to request a copy before you start typing. I'd
like to keep duplicate keystrokes to a minimum.

It will take some time to build a decent list. With the work spread
out among many hands, it will develop quicker and in greater depth.
Thanks.

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